

Training Program  
on  
**Bioinformatics for Molecular Biotechnology**

21<sup>st</sup> - 23<sup>rd</sup> Jan, 2008

at

**NIIT Institute of Information Technology (TNI)**

**8 Balaji Estate, Sudershan Munjal Marg, Kalkaji, New Delhi 110019**

**About The Workshop**

TNI is offering an intensive hands-on workshop on Bioinformatics for Molecular Biotechnology. This course is applicable to all professionals who want to understand the basics of this discipline. The approach of this workshop is not only to teach the technical background but also to provide hand-on practical training to each participant using important bioinformatics tools.

**Eligibility:** Students pursuing graduation/post-graduation/Research in any stream of Life Sciences/Bioinformatics/Information technology.

**What will be covered?**

- **Human Genome Project:** history, goal, achievement and future of HGP
- **Dot plots:** simplest way to compare two sequences in matrix
- **Pairwise Sequence Alignment:** alignment of query sequence with database (BLAST)
- **Multiple sequence alignment and phylogeny:** alignment of related sequences
- **Primer design:** oligo-primers are design against flanking region of desired gene to get amplified product in PCR machine
- **Gene Prediction :** HGP has generated huge amount nucleotide sequences but still we have to find many gene
- **In silico restriction digestion:** restriction maps are required for cloning experiments
- **Secondary Structure Prediction:** protein structure prediction is one of the real challenge in bioinformatics
- **Visualization of Proteins:** 3-D view of protein structure can be visualized using RASMOL, PDB-Viewer tools.
- **Perl programming for bioinformatics**
- **MS Access**

**Course Fee:** Rs. 1,500/- payable in the form of a crossed Demand Draft drawn in favor of NIIT Institute of Information Technology (TNI), payable at New Delhi.

**Number of Seats: 20**

**Venue: TNI, Kalkaji, New Delhi**

**How to Apply?**

Apply on a plain paper or send email to Course coordinator at [sajjad.7.karim@tni.edu.in](mailto:sajjad.7.karim@tni.edu.in)

**Contact Details:**

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